

Year 6

Place Value Riddle

Challenge Cards



1

What Is the Number?

The number has six digits.

The hundreds digit is half the tens digit.

The hundred thousands digit is the ones digit plus the tens digit.

The ten thousands digit is $\frac{1}{3}$ of the tens digit.

The ones digit is 99 divided by 99.

The thousands digit is four less than half a dozen.

The tens digit is 10% of the minutes in an hour.

**2**

What Is the Number?

The number has six digits.

The ten thousands digit is $\frac{1}{3}$ of the tens digit.

The ones digit is the sum of all the other digits.

The thousands digit is larger than 1 but less than the tens digit.

The tens digit is the number of months in a season.

The hundreds digit is the number of angles in a circle.

The hundred thousands digit is the tens digit times the ten thousands digit.

**3**

What Is the Number?

The number has seven digits.

The ones digit is the number of months in a year with 31 days.

The hundreds digit is one third of the hundred thousands digit.

The millions digit is 25% of the tens digit.

The hundred thousands digit is 81 divided by 9.

The ten thousands digit is the hundred thousands digit minus the ones digit.

The tens digit is the ones digit less the sides of a triangle.

The thousands digit is the only odd number that has not been used.

**4**

What Is the Number?

The number has seven digits.

It is more than 8 million but less than 9 million.

The ten thousands digit is 108 divided by 12.

The ones digit is the number of sides on a rectangle.

The thousands digit is the ten thousands digit minus the millions digit.

The hundred thousands digit is the million digit less (2×4).

The hundreds digit is one tenth of 60.

The tens digit is the only even number that has not been used.

**5**

What Is the Number?

The number has seven digits.

The ones digit is the addition of all the other digits.

The hundreds digit is less than the thousands digit.

The millions digit is 200% of the thousands digit.

The hundred thousands digit is 150% more than the millions digit.

The ten thousands digit is 33 divided by 11.

The tens digit is the same as the hundreds digit.

The thousands digit is the only odd number spelt with three letters.

**6**

What Is the Number?

The number has seven digits.

The millions digit is the only even number spelt with five letters.

The ten thousands digit is the even number between the millions digit and the ones digit.

The thousands digit is the number of months in a year with 30 days.

The hundred thousands digit is one more than the million digit.

The hundreds digit is half of the ones digit.

The ones digit is 50% of the millions digit.

The tens digit is the highest number not used.

**7**

What Is the Number?

The number has seven digits.

The millions digit is three times the ten thousands digit.

The hundred thousands digit is 2×2 .

The ten thousands digit is eight less than the ones digit.

The thousands digit is 2 years less than a decade.

The hundreds digit is $\frac{1}{4}$ of two dozen.

The tens digit is a prime number that is a factor of 30 and larger than 4.

The ones digit is the largest possible digit.

**8**

What Is the Number?

The number has seven digits.

It is smaller than 6 million but larger than 5 million.

The ones digit is the number of sides in a heptagon.

The hundreds digit is the same as the thousands digit.

The ten thousands digit is the same as $320 \div 40$.

The tens digit is the number of 90° angles in a circle.

The thousands digit is $\frac{1}{4}$ of the ten thousands digit.

The hundred thousands digit is one less than the thousands digit.

**1**

What Is the Number?

The number has six digits.

The hundred thousands is the number of sides on a square.

The ones digit is less than the tens digit.

The ten thousands digit is $\frac{1}{3}$ the thousands digit.

The thousands digit is 900% of the tens digit.

The tens digit is a quarter of the hundred thousands digit.

The hundreds digit is an even number and less than the hundred thousands digit, but more than the ones digit.

Can you say the number?

2

What Is the Number?

The number has seven digits.

The millions digit is the only odd number spelt with three letters.

The ones digit is an even number higher than the tens digit but less than the thousands digit.

The hundreds digit is $\frac{1}{3}$ the thousands digit.

The hundred thousands digit is 108 divided by 12.

The ten thousands digit is a 150% of the thousands digit.

The tens digit is the hundreds digit divided by the millions digit.

The thousands digit is the number of minutes in 10% of an hour.

Can you say the number?

3

What Is the Number?

The number has seven digits.

The hundreds digit is $3\frac{1}{2}$ times the ten thousands digit.

The hundred thousands digit is the number of letters in the name of the capital of Australia.

The ten thousands digit is $\frac{1}{3}$ of the millions digit.

The tens digit is an odd number and higher than the hundreds digit.

The millions digit is the number of states in Australia.

The ones digit is the only even number not used so far.

The thousands digit is double the ten thousands digit.

Can you say the number?

4

What Is the Number?

The number has eight digits.

The ten millions digit is the sum of all the other digits.

The ten thousands digit is one hour less 60 minutes.

The hundreds digit is triple the tens thousands digit.

The ones digit is the tens digit plus the thousands digit.

The millions digit is 999 divided by 333.

The thousands digit is a third of the millions digit.

The hundred thousands digit is the number of hours in the day divided by 12.

The tens digit is the only odd number spelt with three letters.

Can you say the number?

5

What Is the Number?

The number has eight digits.

The tens digit is the millions digit multiplied by the thousands digit.

The ten millions digit is the number of sides of an octagon.

The ten thousands digit is the number of months with less than 30 days.

The thousands digit is triple the tens thousands digit.

The millions digit is 25% of the ten millions digit.

The ones digit is the only even number not used so far.

The hundred thousands digit is the number of sides on a rhombus.

The hundreds digit is the number of days in a week.

Can you say the number?

6

What Is the Number?

The number has nine digits.

The hundred millions digit is 5% of 100.

The ten millions digit is the hundred millions digit plus the ones digit.

The millions digit is quadruple the ones digit.

The hundred thousands digit is a quarter of the ten thousands digit.

The ten thousands digit is 888 divided by 222.

The thousands digit is the number of sides on a hexagon.

The hundreds digit is the millions digit less the thousands digit.

The tens digit is the only even number not used so far.

The ones digit is the number of half hours in an hour.

Can you say the number?

1

What Is the Number?

The number has eight digits, six before the decimal place and two after.

The ones digit is 60 minutes less one hour.

The hundred thousands digit is 999 divided by 333.

The hundreds digit is triple the thousands digit.

The thousands digit is the number of days in a weekend.

The tens digit is $\frac{1}{3}$ of the hundred thousands digit.

The ten thousands digit is a quarter of 8.

The tenths digit is the only odd number spelt with three letters.

The hundredths digit is eight times the tenths digit.

Can you say the number?

2

What Is the Number?

The number has nine digits, six before the decimal place and three after.

The ten thousands digit is $\frac{2}{3}$ of 9.

The thousands digit is the number of days in a week.

The ones digit is the tens digit multiplied by 999.

The tenths digit is half the hundred thousands digit.

The hundreds digit is the number of months with 31 days.

The thousandths digit is 10% of 10.

The tens digit is the hundreds digit less the thousands digit.

The hundred thousands digit is the number of sides of a square.

The hundredths digit is the only even number not used so far.

Can you say the number?

3

What Is the Number?

The number has eleven digits, seven before the decimal place and four after.

The hundred thousands digit is 25% of the millions digit.

The millions digit is one fifth of 20.

The thousands digit is the number of sides on an octagon.

The ones digit is 900% of the hundred thousands digit.

The hundreds digit is five less than a dozen.

The tenths digit is 765 divided by 0.

The ten thousandths digit is 150% of the millions digit.

The tens digit is the hundreds digit less the millions digit.

The hundredths digit is the only even number not used yet.

The ten thousands digit is double the millions digit.

The thousandths digit is the only odd number not used yet.

Can you say the number?

4

What Is the Number?

The number has thirteen digits, eight before the decimal place and five after.

The tens digit is 1236 multiplied by 0.

The hundred thousands digit is the numbers of sides on a hexagon.

The ones digit is the tens digit multiplied by the millions digit.

The thousands digit is a quarter of the millions digit.

The ten millions digit is one third of 21.

The millions digit is 200% of 4.

The hundredths digit is identical to the ten millions digit.

The ten thousandths digit is 450% of the thousands digit.

The hundred thousandths digit is a third of the tenths digit.

The hundreds digit is the number of months with less than 30 days.

The tenths digit is 1.5 times the thousands digit.

The thousandths digit is 3.5 times the thousand digit.

The ten thousands digit is half the millions digit.

Can you say the number?

5

What Is the Number?

The number has fourteen digits.

The millionths digit is 450% of the tens digit.

The millions digit is 40% of 10.

The thousandths digit is 108 divided by 12.

The ones digit is less than the ten millions digit but more than the millions digit.

The hundred thousands digit is the number of days of the week.

The tens digit is the number of half hours in an hour.

The ten thousands digit is the sides of an octagon.

The thousands digit is a quarter of the ten thousands digit.

The hundred thousandths digit is 12,126 divided 0.

The hundreds digit is 400% of the thousands digit.

The tenths digit is 777 divided by 111.

The ten thousandths digit is the only odd number not used yet.

The ten millions digit is one tenth of 60.

The hundredths digit is the only odd number spelt with three letters.

Can you say the number?



What Is the Number?

The number has fifteen digits.

The hundredths digit is 100% of the millions digit.

The tenths digit is 3.5 times the tens digit.

The thousands digit is 25 % of 32.

The ten millions digit is the number of sides on a rhombus.

The hundred thousands digit is the millions digit plus the ten millions digit.

The hundreds digit is the number of months with 31 days.

The hundred millions digit is one third of 27.

The ten thousands digit is 84 divided by 12.

The hundred thousandths digit is the number of months in half a year.

The ones digit is one minute less 51 seconds.

The millionths digit is the only number not used so far.

The thousandths digit is $\frac{1}{8}$ of the thousands digit.

The tens digit is the thousands digit less the millions digit.

The ten thousandths digit is the only odd number not used so far.

The millions digit is 0.5×10 .

Can you say the number?

What Is the Number? Answers



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|--------------|--------------|
| 1. 722 361 | 5. 2 331 009 |
| 2. 312 039 | 6. 8 965 274 |
| 3. 1 925 347 | 7. 3 418 659 |
| 4. 8 091 624 | 8. 5 182 247 |



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| 1. 439 210 | 5. 82 413 760 |
| 2. 1 996 224 | 6. 578 146 202 |
| 3. 6 824 790 | |
| 4. 93 201 012 | |



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|---------------------|-----------------------|
| 1. 322 610.18 | 5. 64 782 825.719309 |
| 2. 467 700.281 | 6. 945 978 729.751360 |
| 3. 4 188 739.0256 | |
| 4. 78 642 100.35791 | |